

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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SCHROCK, C.A.      Wisconsin Public Service Corp.  
RECIP. NAME      RECIPIENT AFFILIATION  
                                 Document Control Branch (Document Control Desk)

SUBJECT: Provides test results for CD-4000 series isolator used in containment hydrogen analyzer panel, per Reg Guide 1.97. Util completed testing on 921009, in joint venture w/another nuclear util.

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October 30, 1992

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U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
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Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Regulatory Guide 1.97 Accident Monitoring Instrumentation

Reference: 1) Letter from C. A. Schrock (WPSC) to Document Control Desk (NRC) dated July 1, 1992.

2) Letter from A. G. Hansen (NRC) to C. A. Schrock (WPSC) dated June 9, 1992.

Reference 1 notified the Nuclear Regulatory Commission (NRC) of Wisconsin Public Service Corporation's (WPSC) commitments to the recommendations of NRC Regulatory Guide (RG) 1.97, Revision 3, with exceptions and deviations as described therein. Reference 2 provided WPSC with the results of the NRC RG 1.97 inspection performed the week of February 24-28, 1992, at the Kewaunee Nuclear Power Plant (KNPP). Based on discussions between WPSC and NRC staff during the inspection period, WPSC committed to provide test results for the CD-4000 series isolator used in the containment hydrogen analyzer panel by October 31, 1992.

WPSC, in a joint venture with another nuclear utility, completed testing of the hydrogen monitoring system isolator on October 9, 1992. This test entailed the application of maximum credible AC fault voltage to the output side of the isolator to determine the effects on the input side as required by IEEE 384-1977. The testing provided reasonable assurance that the isolator

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meets the requirements of IEEE 384-1977 by protecting the input signal from the detrimental effects of the maximum credible AC fault voltage. However, faulty test equipment affected the test traces such that exact input and output results could not be conclusively determined. Given the unquantifiable test results, it was determined that further evaluation must be performed and, as described below, this additional evaluation will not be completed by October 31, 1992. This delay was discussed with Mr. G. M. Hausman (NRC - Region III) and MR. T. Gody, Jr. (NRR Project Management) on October 22, 1992.

Before commencement of the isolation test described above, the containment hydrogen monitoring system manufacturer was contacted to determine if test documentation existed for this isolator. The manufacturer could not identify an applicable test report; therefore, WPSC committed to perform an isolation test to verify that the isolation results were adequate. The test performed on the electrical isolators associated with the containment hydrogen monitoring system is destructive (i.e., damages the output circuitry of the isolator); therefore, new isolator modules need to be obtained from the manufacturer if the test is to be repeated. While pursuing the purchase of additional isolator modules through the manufacturer's distributor, it was discovered that an independent test report existed. This test report is currently on order. Following a review of this report, WPSC will inform the NRC if the test results are acceptable. WPSC intends to have this review complete by December 31, 1992.

If the test report does not provide adequate information, the isolator will be retested and the results will then be forwarded to the NRC. Due to the lead time associated with obtaining the isolators and the time required to review and document the test results, WPSC expects to provide information to the NRC on the test results by February 28, 1993.

If you have questions or need further clarification, please contact me or a member of my staff.

Sincerely,



C. A. Schrock  
Manager - Nuclear Engineering

DJW/jac

cc - US NRC - Region III  
Mr. Patrick Castleman, US NRC

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